

JPEO-CBD

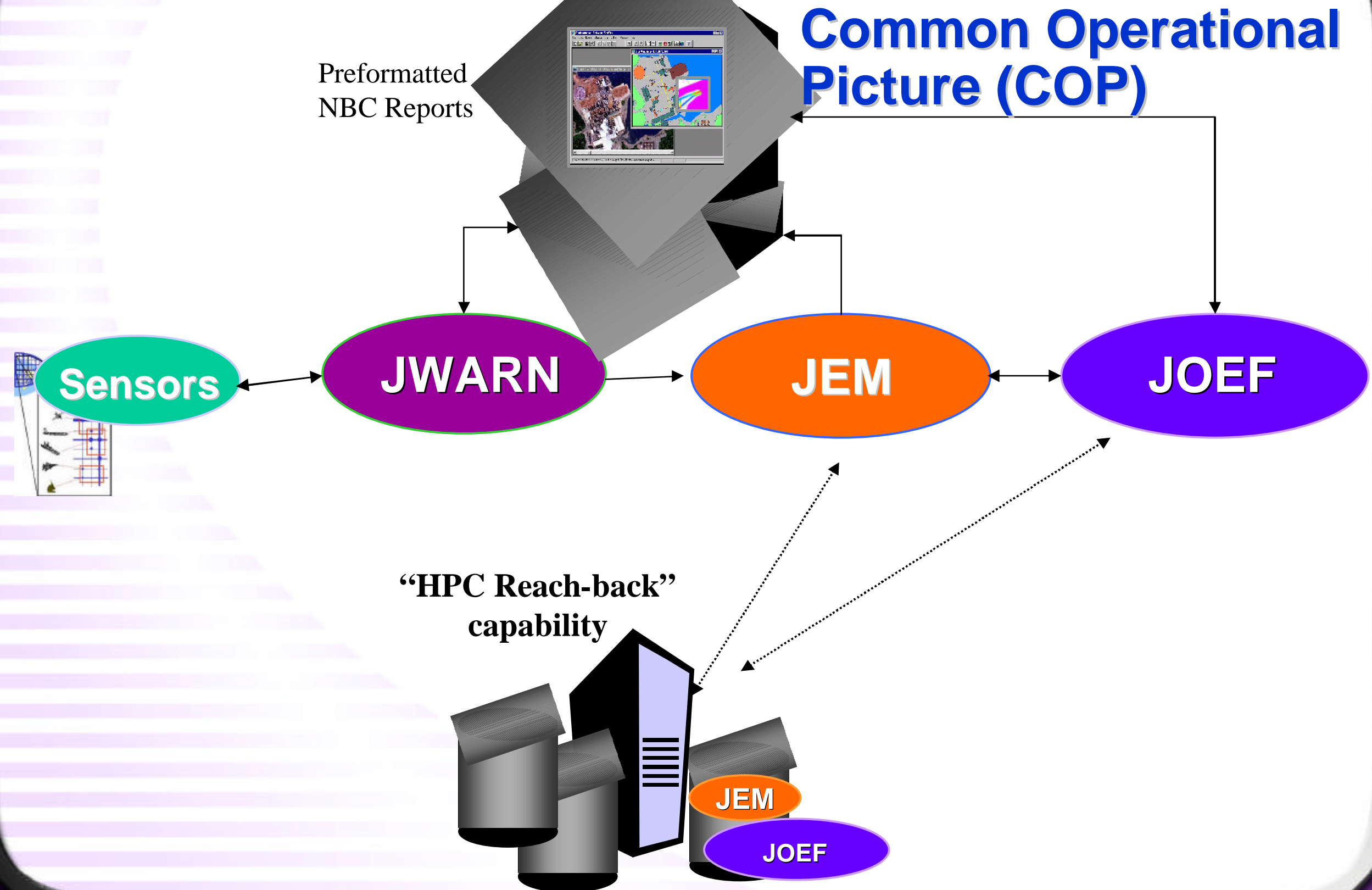


JPM Information Systems
7 April 2004
Advanced Planning Brief to Industry

CAPT Tom O'Keefe
JPM Information Systems
Joint Program Executive Office
for Chemical and Biological Defense
Thomas.O'Keefe@navy.mil

JPM IS - Program Overview

End-to-End Capability



JPM-IS Warfighter Needs

- **Principal Capabilities:**
 - Information Systems is ranked # 2
- **Operational Capabilities**
 - Battlespace Information Management is ranked # 1
 - Battlespace Analysis and Planning is ranked # 5
- **Enabling Capabilities**
 - Real time visualization of the Battlespace is ranked # 1
 - CBRN Analysis and Planning tools is ranked # 3

Joint Warning and Reporting (JWARN) Program Overview

- JWARN is an ACAT III (Sentinel and Oversight Program) information system that allows for the networking and interface of NBC sensors, mission application software tools, and C4ISR systems
- JWARN will provide an integrated communication architecture between C4ISR systems and NBC sensors
- A JWARN Initial Capability (JIC) will elicit Warfighter feedback and expedite system development

JWARN Program Status

- **USD (AT&L) signed the JWARN Block II Milestone B decision July 11, 2003**
- **JWARN contract award announced**
 - Northrop Grumman IT (Orlando) prime developer
- **Acquisition Strategy (AS) revised and approved by USD (AT&L)**
- **JWARN Initial Capability (JIC) operational prototype successfully demonstrated at World-Wide Chemical Conference Nov 03**
- **Successful completion of the JWARN Critical Design Review**
- **Successful completion of first three JWARN User Assessments**
- **JWARN Block II Phase 1 Software began developmental testing and is on track for completion May 2004**
- **JWARN Test and Evaluation Plan redraft in progress**

JWARN Technical Challenges

- **Joint Warfighter Exercises**
- **Wireless Technologies**
- **Automated sensor interfaces for M8A1, M21, M22, IPDS, ADM 300, AN/VDR2, JBPDS**
- **Application support for MCS, AFATDS, FBCB2, C2PC, GCCS, GCCS-M, GCCS-A and GCCS-AF**
- **Software hosting, integration and configuration issues**
- **Future C2**

JWARN Business Opportunities

Time Period

JWARN Initial Capability Development
–System Integration

FY 04

JWARN Data Management
–Leverage JEM and JOEF efforts

FY 04

ATD/JWE Events
– Wireless Technologies
– SW hosting and configuration
issues

FY 05 – FY 06

Joint Effects Model (JEM) Program Overview

- JEM is an ACAT III Modeling & Simulation Program that will provide a single, validated capability to predict the transport and dispersion of CBRN / TIH events and their effects
- JEM will be accredited for all uses currently supported by the three interim accredited DoD S&T Hazard Prediction Models
- JEM will be integrated with Service Command & Control Systems

JEM Technical Challenges

- **Block II**
 - High altitude missile intercept effects modeling
 - Weather effects above 20 km and precipitation
 - Improved transport and diffusion methodologies
- **Block III**
 - Waterborne Hazard Modeling
 - Contagious Disease Modeling
 - Complex structures
 - Building interiors
 - Human performance degradation

JEM Business Opportunities

Time Period

**Request for Information
(Block II capabilities)**

3QFY04

**BAA for System Development & Demo
(Block II)**

1QFY05

**Sources Sought Announcement
(Block III capabilities)**

2QFY06

**RFP for System Development & Demo
(Block III)**

2QFY07

Joint Operational Effects Federation (JOEF) Program Overview

- **JOEF is an ACAT III Modeling & Simulation Program that will provide the Joint Warfighter a model-based CBRN decision support information system that will:**
 - Estimate hazard effects on personnel and operations
 - Support advance and operational planning
 - Integrate with other CBDP models
 - Deploy on Service C2 systems

JOEF Technical Challenges

- **Assess effects on airports of debarkation**
- **Incorporate medical requirements**
- **Assess effects on sea ports of debarkation**
- **Assess effects on land**
- **Assess effects on mobile forces**
- **Assess effects on littoral forces**
- **Provide a full combat model for deliberate planning and operational use**
- **Interface with JMDSS is a new JOEF requirement**

JOEF Business Opportunities

**BAA for System Development
& Demonstration**

2QFY06

JPM IS Software Support Activity (SSA)

SSA Technical Challenges

- **Enterprise Architecture** - Define existing software architectures employed across JPEO CBD
- **Data Management** - Establish consistency of CBRN Data Schema, Data Model and XML Data Exchange between JEM, JOEF, JWARN
- **Integration and Testing** - Provide JPEO with “one-stop shop” for C4ISR systems integration and testing
- **Standards, Protocols and Human Systems Interface (HSI)** - Ensure that all JPEO CBD Graphical User Interfaces have a common look, feel and functionality

SSA Business Opportunities

	<u>Time Period</u>
Enterprise Architecture	TBD
Data Management	TBD
Integration and Testing	TBD
Help Desk	TBD
Standards, Protocols and Human Systems Interface	TBD

Points of Contact

CAPT Tom O’Keefe, JPM-IS

(858) 537-0120

Thomas.O’keefe@navy.mil

CAPT Scott White, Deputy JPM-IS

(858) 537-0214

Scott.a.white@navy.mil

Mr. Rob Walker, Director of Operations

(858) 537-8665

Robert.J.Walker@navy.mil

Back-Ups

SSA Technical Challenges

Enterprise Architecture

- Define existing software architectures employed across JPEO CBD
- Maintain a configuration managed database of current architectures
- Review current architectures to determine compatibility/adaptability

Data Management

- Establish consistency of CBRN Data Schema, Data Model and XML Data Exchange between JEM, JOEF, JWARN
- Coordinate C4ISR/Combat Support Interoperability with Joint Programs
- Reconcile Legacy Data and Systems Analysis model inconsistencies
- Identify Authoritative Data and "Gaps" Meta Data Registration consistent with MID 905 and Supplemental Guidance

SSA Technical Challenges

Integration and Testing

- Provide JPEO with “one-stop shop” for C4ISR systems integration
- Provide centralized simulation support capability for system test and evaluation
- Provide consistent processes and guidance to JPEO CBD programs for conducting:
 - Model accreditation
 - Data certification
 - IV&V
- Coordinate and consolidate software operational and demonstration tests across JPEO CBD where appropriate

SSA Technical Challenges

Help Desk

- Provide centralized 7/24 support for all JPEO CBD developed software applications
 - Eliminates need and associated costs for multiple help desks
- Provide common trouble reporting and tracking software
- Use JWARN lesson learned: warfighter prefers one POC for help desk

Standards, Protocols and Human Systems Interface

- Ensure that all JPEO CBD GUIs have a common look, feel and functionality
- Ensure consistent protocols, data schemas and open system standards are employed by JPEO CBD programs when practical
- Work with enterprise architecture team to coordinate implementation of standards